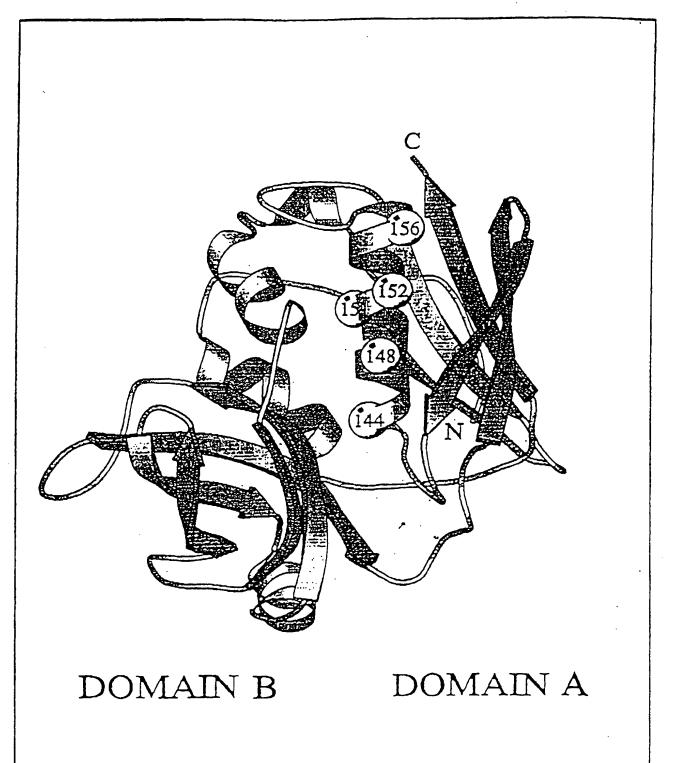


FIGURE 1



PCT/US97/22228

TCATGTTTGACAGCTTATCATCGATAAGCTTACTTTTGGAATCAGGTCTATCCTTGAAACAGGTGCAACATAGATTAGGGCATGGAGATTTACCAGACAA CTATGAACGTATATACTCACATCACGCAATCGGCAATTGATGACATTGGACATTGGAACTAAATTCAATGAATTTGTTACTAACAAGCAACTAGATTGACAACTAAT 200 TTOTTCATTTGATATAGTOTAATTOGACGATEACTTOTTCCACTCTGTCTACCGTGACAACTTCATCATCTTCTCACTTTTTCGTGTGGTAACACATAATC 500 AAATATOTTUUGGTTTTTACGCAGTATGGGTACTGTGACGTAAAATATAGGGGTTATCACTGGTTGTTAAACTCATCTATATAACATATTTTGT 800 TODAGGAATATTA ATG GÃA AÃC AÃT AÃA AÃA GTA TTO AÃG AÃA ATG GTA TTT TTT GTT, TTA GTG ACA TTT CTT GGA CTA T L S O E V TT GET CAA CAA GAC CCC GAT CSA AGC CAA CTT CAC AGA TET AGT TTA GTT AAA AAC CTT 20 TO THE TAT GAG GOT GAG GAT ACT CAG GAG AAT GTG AAA TOT GAT CAA CTT TEA TOT CAC SÃ THÀ ATR TẬT LẬT GTT TỐN GỐC CÓN MẬT TẬT GẬT MÀN TTÀ MÀN MỐT GẦN CỐT MÁG MÁC CỦA GẮC NTG BCH ÁCT TTÀ 130 140 T A TO CÂN MỘC CẦN TỐN TỐN TỐT GẦN NỮN NỮN NĂN NĂN NĂN NĂN NĂN NĂN SỐT CÂN GẮN TẦN GẮC TẤT MÀN 150 TO THE STATE OF THE SATE AND CAN CTA TAT ACT AND GOA COT TOT AND TAT GAN ACT GOA TAT ATA AND TOTO 200 190 THE REAL PROPERTY OF THE COT GAR CON GAR TIT ACT CAN THE COT AND THE C THE ANA GREAT GRANT GRANT GRANT GRANT GRANT GRANT GRANT THE CTA ACA ACC ARG THE CTTTTGCTTTTGGC 

.\_ FIGURE 3

:SAAAATCATAGACAGGAGCTTGTAGCTTAGCAACTATTTTATCGTC 3:

Figure 4

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Figure 5

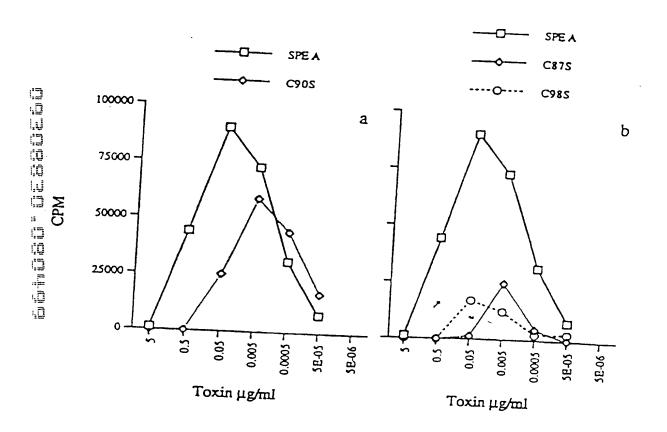


Figure 6

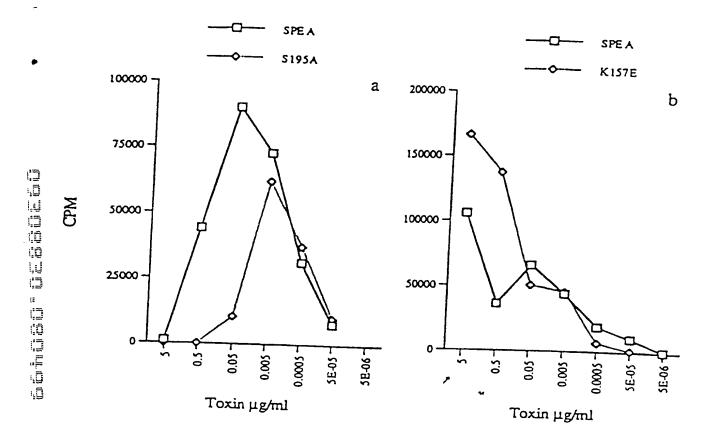
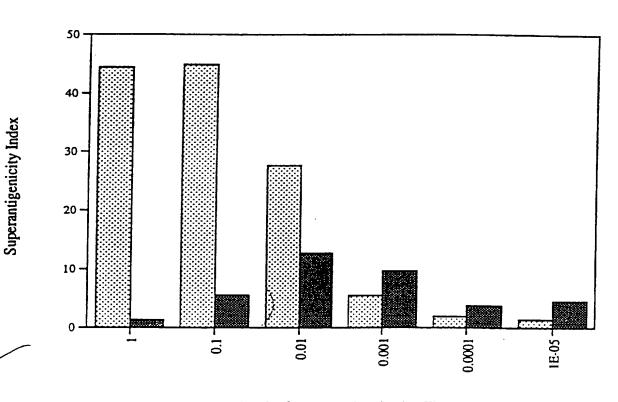


Figure 7

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Superantigenicity Index of SPE A vs. SPEA K157E



Toxin Concentration (ug/well)

SPE A

K157E

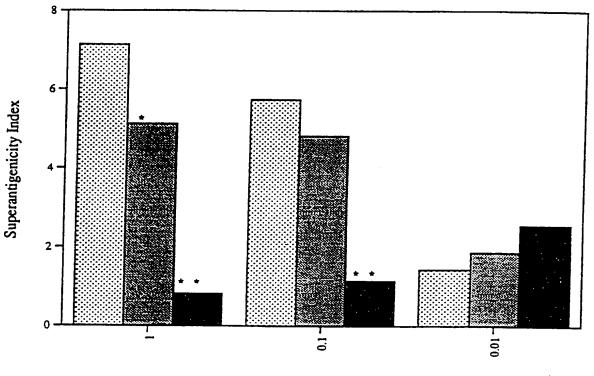


Figur 8

B

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## Superantigenicity Index of Mutants of SPE A



Toxin Concentration (ug/well)

- № N20D
- N20D/K157E
- N20D/C98S
- \* Significantly different from N20D, p<0.01
- Significantly different from N20D p<0.001 at 1ug, p<0.001 at 0.1 ug</p>

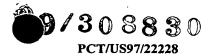
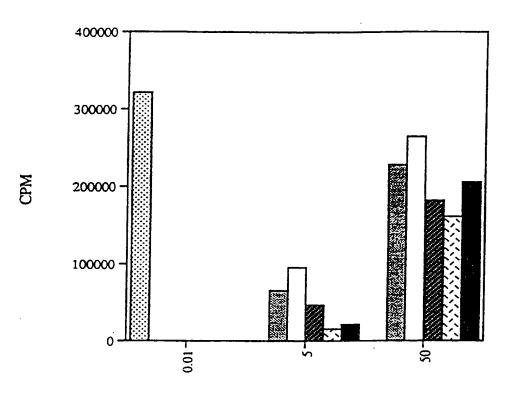


Fig 9

SPE A Inhibition by Immunized Rabbit Sera



Dilution

- SPE A, 0.01ug
- xSPEA + SPE A
- ☐ NRS + SPE A
- xN20D + SPE A
- xN20D/C98S + SPE A
- xN20D/K157E + SPE A

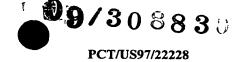
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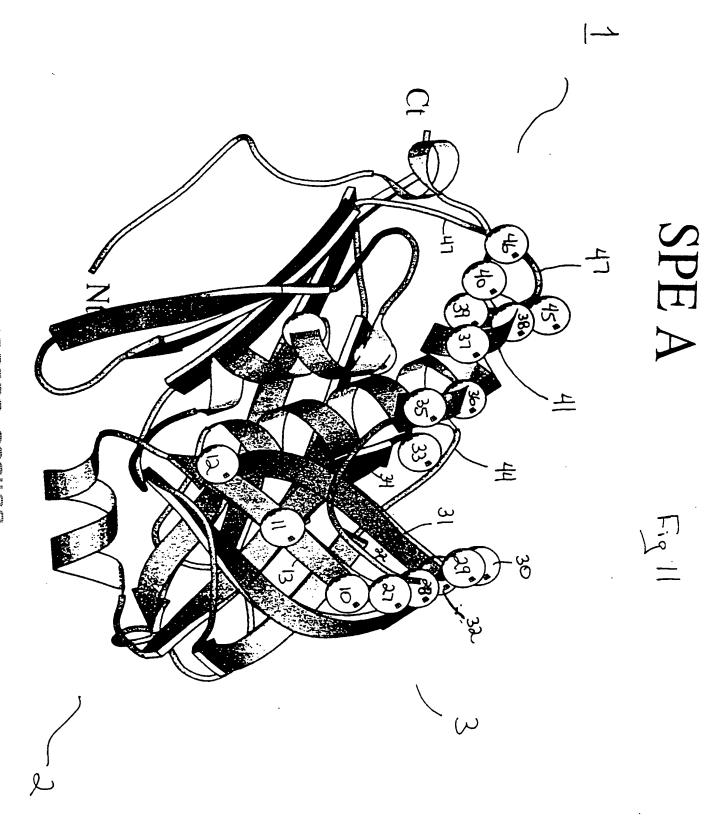


## SPE A

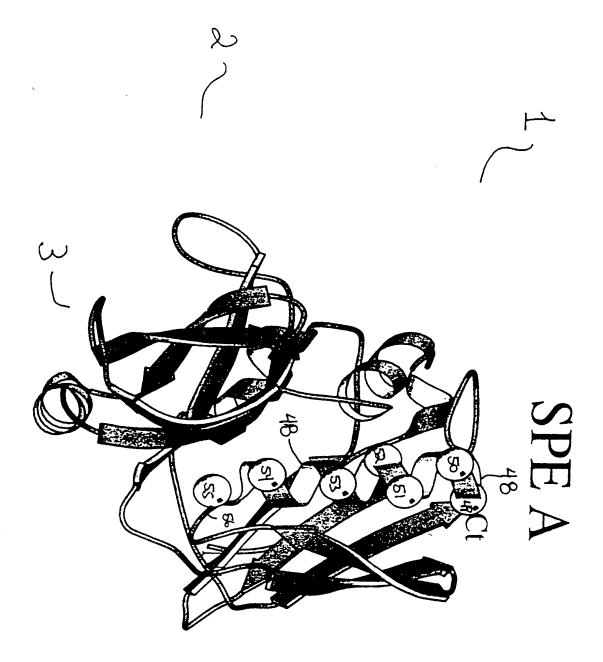
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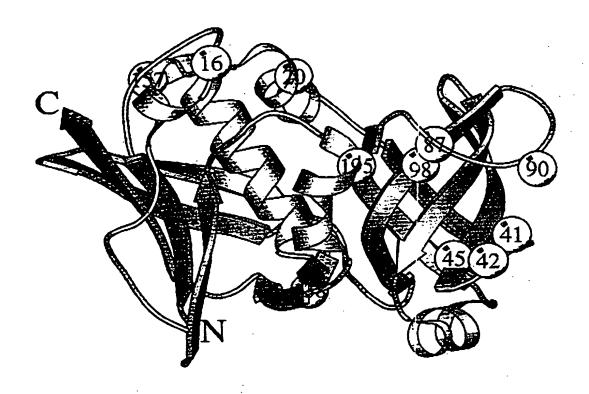




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Domain A

Domain B

F1913